

**Notice of Allowability**

Application No.

10/625,284

Examiner

HOAN C. NGUYEN

Applicant(s)

SU ET AL.

Art Unit

2871

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Response to Restriction filed 12/08/2004.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 22 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**EXAMINER'S AMENDMENT**

The election has been treated as an election without traverse, and claims 7-9 are withdrawn without traverse. Therefore, claims 7-9 should be canceled.

## **DETAILED ACTION**

### ***Election/Restrictions***

Applicant's election of group I (claims 1-6) in the reply filed on 12/08/2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 7-9 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12/08/2004.

### ***Allowable Subject Matter***

Claims 1-6 are allowed.

### ***Reasons for Allowance***

Claim 1 is allowed since there is no prior art teaches an active matrix liquid crystal panel having a repairable configuration comprising:

- a plurality of first common electrodes including closed-loop branches and root traces, wherein the closed-loop branches are connected to root traces;
- a plurality of comb-shaped second common electrode including a plurality of first apertures and second apertures, wherein two ends of the signal lines are

electrically connected to their adjoining closed-loop branches and root traces through the first apertures and the second apertures respectively if the signal lines are broken;

Claims 2-6 are allowed since they depend on the allowed claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Yang (US 6628368 B2) discloses a liquid crystal display (LCD) capable of being repaired for defects in data lines and storage capacitors of the LCD.

Wu et al. (US 6712666 B2) disclose a structure and a fabrication method of a flat panel display comprising address lines with mending layers. A first address line and a first mending layer are formed on a substrate. The first mending layer and the first address line are electrically insulated with each other, and the first mending layer is partitioned into different segments by the first address line. A first insulating layer is formed over the substrate to cover at least the first mending layer and the first address

line. A second address line is formed on the first insulating layer over the first mending layer and crossing the first address line. A second insulating layer is formed over the substrate to cover at least the second address line. A second mending layer is formed on the second insulating layer over the second address line and crossing the first address line.

Lee et al. (US 20040169781 A1) disclose a method of repairing data line defects and flat panel display incorporating the same. The shielding metal lines are disposed beside the data lines and the backup wires are across the adjacent data lines/shielding metal lines to repair disconnection defects in data lines. If several defects occur in the same data line, each defect can be repaired by laser fusing using the adjacent, suitable shielding metal line and the corresponding backup wires to detour around the defect to create an electrical loop. The flat panel display further comprises the shielding metal lines disposed beside the gate lines and the backup wires across the adjacent gate lines/shielding metal lines to repair disconnection defects in gate lines.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

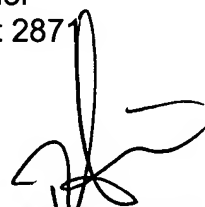
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim H Robert can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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HOAN C. NGUYEN  
Examiner  
Art Unit 2871

A handwritten signature in black ink, appearing to read 'R. Kim', is written over the printed name of Robert H. Kim.

**ROBERT H. KIM**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2800**